

105TH CONGRESS
1ST SESSION

H. R. 1277

To authorize appropriations for fiscal year 1998 and fiscal year 1999 for the civilian research, development, demonstration, and commercial application activities of the Department of Energy, and for other purposes.

IN THE HOUSE OF REPRESENTATIVES

APRIL 10, 1997

Mr. CALVERT introduced the following bill; which was referred to the
Committee on Science

A BILL

To authorize appropriations for fiscal year 1998 and fiscal year 1999 for the civilian research, development, demonstration, and commercial application activities of the Department of Energy, and for other purposes.

1 *Be it enacted by the Senate and House of Representa-*
2 *tives of the United States of America in Congress assembled,*

3 **SECTION 1. SHORT TITLE.**

4 This Act may be cited as the “Department of Energy
5 Civilian Research and Development Act of 1997”.

6 **SEC. 2. DEFINITIONS.**

7 For purposes of this Act—

1 (1) the term “CERN” means the European Or-
2 ganization for Nuclear Research;

3 (2) the term “Department” means the Depart-
4 ment of Energy;

5 (3) the term “Large Hadron Collider project”
6 means the Large Hadron Collider project at CERN;
7 and

8 (4) the term “Secretary” means the Secretary
9 of Energy.

10 **SEC. 3. AUTHORIZATION OF APPROPRIATIONS.**

11 (a) ENERGY SUPPLY RESEARCH AND DEVELOPMENT
12 ACTIVITIES.—There are authorized to be appropriated to
13 the Secretary for Energy Supply Research and Develop-
14 ment operating expenses and capital equipment
15 \$2,838,719,000 for fiscal year 1998 and \$2,847,813,000
16 for fiscal year 1999, of which—

17 (1) \$272,820,000 for fiscal year 1998 (reduced
18 by \$15,000,000 to reflect the use of prior year bal-
19 ances) and \$270,342,000 for fiscal year 1999 shall
20 be for Solar and Renewable Resources Technologies,
21 including—

22 (A) \$2,150,000 for fiscal year 1998 and
23 \$2,150,000 for fiscal year 1999 for Solar Build-
24 ing Technology Research;

1 (B) \$63,900,000 for fiscal year 1998 and
2 \$64,900,000 for fiscal year 1999 for Photo-
3 voltaic Energy Systems;

4 (C) \$18,170,000 for fiscal year 1998 and
5 \$13,620,000 for fiscal year 1999 for Solar
6 Thermal Energy Systems;

7 (D) \$28,835,000 for fiscal year 1998 and
8 \$28,190,000 for fiscal year 1999 for Biopower/
9 Biofuels Energy Systems;

10 (E) \$29,500,000 for fiscal year 1998 and
11 \$18,140,000 for fiscal year 1999 for Wind En-
12 ergy Systems;

13 (F) \$2,800,000 for fiscal year 1998 and
14 \$500,000 for fiscal year 1999 for the National
15 Renewable Energy Laboratory;

16 (G) \$19,518,000 for fiscal year 1998 and
17 \$19,518,000 for fiscal year 1999 for Geo-
18 thermal Electric Research and Development;

19 (H) \$1,000,000 for fiscal year 1998 for
20 Hydropower;

21 (I) \$44,500,000 for fiscal year 1998 and
22 \$36,500,000 for fiscal year 1999 for Electric
23 Energy Systems and Storage, of which—

1 (i) \$8,000,000 for fiscal year 1998
2 shall be for Electric and Magnetic Fields
3 Research and Development;

4 (ii) \$32,500,000 for fiscal year 1998
5 and \$32,500,000 for fiscal year 1999 shall
6 be for High-Temperature Superconductiv-
7 ity Research and Development; and

8 (iii) \$4,000,000 for fiscal year 1998
9 and \$4,000,000 for fiscal year 1999 shall
10 be for Energy Storage Systems;

11 (J) \$50,000,000 for fiscal year 1998 and
12 \$75,000,000 for fiscal year 1999 shall be for a
13 Solar and Renewable Energy Science Initiative,
14 to be managed by the Director of the Office of
15 Energy Research, for grants to be competitively
16 awarded and subject to peer review for research
17 related to solar and renewable energy; and

18 (K) \$12,447,000 for fiscal year 1998 and
19 \$11,824,000 for fiscal year 1999 for Program
20 Direction;

21 (2) \$173,166,000 for fiscal year 1998 and
22 \$146,540,000 for fiscal year 1999 shall be for Nu-
23 clear Energy, including—

1 (A) \$47,000,000 for fiscal year 1998 and
2 \$43,350,000 for fiscal year 1999 for Advanced
3 Radioisotope Power Systems;

4 (B) \$9,500,000 for fiscal year 1998 and
5 \$8,809,000 for fiscal year 1999 for Oak Ridge
6 Landlord;

7 (C) \$3,217,000 for fiscal year 1998 and
8 \$3,217,000 for fiscal year 1999 for Test Reac-
9 tor Area Landlord;

10 (D) \$2,000,000 for fiscal year 1998 for
11 Advanced Test Reactor Fusion Irradiations;

12 (E) \$6,000,000 for fiscal year 1998 and
13 \$6,000,000 for fiscal year 1999 for University
14 Nuclear Science and Reactor Support;

15 (F) \$70,535,000 for fiscal year 1998 and
16 \$60,000,000 for fiscal year 1999 for Termi-
17 nation Costs;

18 (G) \$20,854,000 for fiscal year 1998 and
19 \$11,807,000 for fiscal year 1999 for Isotope
20 Support; and

21 (H) \$14,060,000 for fiscal year 1998 and
22 \$13,357,000 for fiscal year 1999 for Program
23 Direction;

24 (3) \$77,160,000 for fiscal year 1998 (reduced
25 by \$3,535,000 reflecting the use of prior year bal-

ances) and \$76,828,000 for fiscal year 1999 shall be for Uranium Programs;

(4) \$107,870,000 for fiscal year 1998 and \$100,237,000 for fiscal year 1999 shall be for Environment, Safety, and Health;

(5) \$367,538,000 for fiscal year 1998 and \$378,564,000 for fiscal year 1999 shall be for Biological and Environmental Research, including—

(A) \$157,037,000 for fiscal year 1998 and \$161,748,000 for fiscal year 1999 for Life Sciences;

(B) \$100,954,000 for fiscal year 1998 and \$103,983,000 for fiscal year 1999 for Environmental Processes;

(C) \$66,435,000 for fiscal year 1998 and \$68,428,000 for fiscal year 1999 for Environmental Remediation; and

(D) \$43,112,000 for fiscal year 1998 and \$44,405,000 for fiscal year 1999 for Medical Applications and Measurement Sciences;

(6) \$240,000,000 for fiscal year 1998 and \$240,000,000 for fiscal year 1999 shall be for Fusion Energy Sciences, of which \$5,000,000 for fiscal year 1998 and \$5,000,000 for fiscal year 1999 shall be for General Plasma Science;

1 (7) \$659,812,000 for fiscal year 1998 and
2 \$678,888,000 for fiscal year 1999 shall be for Basic
3 Energy Sciences, including—

4 (A) \$391,047,000 for fiscal year 1998 and
5 \$402,060,000 for fiscal year 1999 for Materials
6 Sciences, of which not to exceed \$5,000,000 for
7 each such fiscal year may be used for the High
8 Flux Beam Reactor at Brookhaven National
9 Laboratory;

10 (B) \$199,933,000 for fiscal year 1998 and
11 \$205,931,000 for fiscal year 1999 for Chemical
12 Sciences;

13 (C) \$41,371,000 for fiscal year 1998 and
14 \$42,612,000 for fiscal year 1999 for Engineer-
15 ing and Geosciences; and

16 (D) \$27,461,000 for fiscal year 1998 and
17 \$28,285,000 for fiscal year 1999 for Energy
18 Biosciences;

19 (8) \$140,907,000 for fiscal year 1998 and
20 \$145,134,000 for fiscal year 1999 shall be for Com-
21 putational and Technology Research, including—

22 (A) \$117,490,000 for fiscal year 1998 and
23 \$121,014,000 for fiscal year 1999 for Mathe-
24 matical, Information, and Computational
25 Sciences;

1 (B) \$15,829,000 for fiscal year 1998 and
2 \$16,304,000 for fiscal year 1999 for Labora-
3 tory Technology Research; and

4 (C) \$7,588,000 for fiscal year 1998 and
5 \$7,816,000 for fiscal year 1999 for Advanced
6 Energy Projects;

7 (9) \$1,500,000 for fiscal year 1998 and
8 \$1,500,000 for fiscal year 1999 shall be for Energy
9 Research Analysis;

10 (10) \$29,070,000 for fiscal year 1998 and
11 \$27,434,000 for fiscal year 1999 shall be for Energy
12 Research-Energy Supply Program Direction;

13 (11) \$682,387,000 for fiscal year 1998 and
14 \$682,387,000 for fiscal year 1999 shall be for Envi-
15 ronmental Restoration and Waste Management
16 (Non-Defense), including—

17 (A) \$457,625,000 for fiscal year 1998 and
18 \$457,625,000 for fiscal year 1999 for Environ-
19 mental Restoration;

20 (B) \$153,004,000 for fiscal year 1998 and
21 \$153,004,000 for fiscal year 1999 for Waste
22 Management; and

23 (C) \$71,758,000 for fiscal year 1998 and
24 \$71,758,000 for fiscal year 1999 for Nuclear
25 Material and Facility Stabilization;

1 (12) \$11,554,000 for fiscal year 1998 and
2 \$11,152,000 for fiscal year 1999 shall be for Tech-
3 nical Information Management; and

4 (13) \$93,480,000 for fiscal year 1998 and
5 \$88,806,000 for fiscal year 1999 shall be for Field
6 Operations.

7 (b) ENERGY ASSETS ACQUISITION.—There are au-
8 thorized to be appropriated to the Secretary for the pur-
9 chase, construction, expansion, and acquisition of real
10 plant, property, and other physical assets for energy sup-
11 ply research and development activities, \$43,582,000 for
12 fiscal year 1998 and \$45,332,000 for fiscal year 1999, of
13 which—

14 (1) for Solar and Renewable Resources Tech-
15 nology, \$2,200,000 for fiscal year 1998 shall be for
16 completion of Project 96–E–100, Field Test Labora-
17 tory Building Renovation and Expansion, National
18 Renewable Energy Laboratory;

19 (2) for Nuclear Energy, \$4,425,000 for fiscal
20 year 1998 and \$6,425,000 for fiscal year 1999 shall
21 be for completion of Project 95–E–201, Test Reac-
22 tor Area Fire and Life Safety Improvements, Idaho
23 National Engineering and Environmental Labora-
24 tory;

25 (3) for Uranium Programs—

1 (A) \$400,000 for fiscal year 1998 and
2 \$5,200,000 for fiscal 1999 for completion of
3 Project 98-U-200, DUF₆ Cylinder Storage
4 Yards, K-25 Plant, Oak Ridge, Tennessee; and

5 (B) \$6,000,000 for fiscal year 1998 and
6 \$10,700,000 for fiscal year 1999 for completion
7 of Project 96-U-201, DUF₆ Cylinder Storage
8 Yards, Paducah, Kentucky, Gaseous Diffusion
9 Plant;

10 (4) for Basic Energy Sciences, \$7,000,000 for
11 fiscal year 1998 and \$4,000,000 for fiscal year 1999
12 for completion of Project 96-E-300, Combustion
13 Research Facility, Phase II, Sandia National Lab-
14 oratories, Livermore, California;

15 (5) for Multiprogram Energy Laboratories-Fa-
16 cilities Support, \$21,260,000 for fiscal year 1998
17 and \$19,007,000 for fiscal year 1999 for—

18 (A) Project MEL-001, Multiprogram En-
19 ergy Laboratories Infrastructure Project, Var-
20 ious Locations, \$7,259,000 for fiscal year 1998
21 and \$12,161,000 for fiscal year 1999;

22 (B) Project 96-E-333, Multiprogram En-
23 ergy Laboratories Upgrades, Various Locations,
24 \$5,273,000 for fiscal year 1998 and \$268,000
25 for fiscal year 1999;

1 (C) Project 95–E–308, Sanitary System
2 Modifications, Phase II, Brookhaven National
3 Laboratory, Upton, New York, \$568,000 for
4 fiscal year 1998;

5 (D) Project 95–E–307, Fire Safety Im-
6 provements-Phase III, Argonne National Lab-
7 oratory, Argonne, Illinois, \$718,000 for fiscal
8 year 1998;

9 (E) Project 95–E–301, Central Heating
10 Plant Rehabilitation-Phase I, Argonne National
11 Laboratory, Argonne, Illinois, \$3,442,000 for
12 fiscal year 1998; and

13 (F) Project 94–E–363, Roofing Improve-
14 ments, Oak Ridge National Laboratory, Oak
15 Ridge, Tennessee, \$4,000,000 for fiscal year
16 1998 and \$6,578,000 for fiscal year 1999; and

17 (6) for Environmental Restoration and Waste
18 Management (Non-Defense), \$2,297,000 for fiscal
19 year 1998, of which—

20 (A) \$1,900,000 shall be for completion of
21 Project 94–E–602, Bethel Federal Facility
22 Agreement Upgrade, Oak Ridge National Lab-
23 oratory; and

24 (B) \$397,000 shall be for completion of
25 Project 93–E–900, Long-Term Storage of

1 TMI-2 Fuel; Idaho National Energy and Envi-
2 ronmental Laboratory, Idaho.

3 (c) GENERAL SCIENCE AND RESEARCH ACTIVI-
4 TIES.—There are authorized to be appropriated to the
5 Secretary for General Science and Research Activities op-
6 erating expenses and capital equipment—

7 (1) \$865,210,000 for fiscal year 1998 (reduced
8 by \$15,000,000 to reflect the use of prior year bal-
9 ances), including—

10 (A) \$599,185,000 for High Energy Phys-
11 ics, of which \$141,594,000 shall be for the
12 Stanford Linear Accelerator Center;

13 (B) \$256,525,000 for Nuclear Physics;
14 and

15 (C) \$9,500,000 for Program Direction;
16 and

17 (2) \$941,000,000 for fiscal year 1999, includ-
18 ing—

19 (A) \$607,645,000 for High Energy Phys-
20 ics, of which \$141,594,000 shall be for the
21 Stanford Linear Accelerator Center;

22 (B) \$324,330,000 for Nuclear Physics;
23 and

24 (C) \$9,025,000 for Program Direction.

1 None of the funds authorized for High Energy Physics
2 by this subsection or subsection (d) may be used for the
3 Large Hadron Collider project, unless the Secretary has
4 transmitted to the Committee on Science of the House of
5 Representatives and the Committee on Energy and Natu-
6 ral Resources of the Senate a report on the impacts of
7 such funding on the operations and viability of United
8 States high energy and nuclear physics facilities.

9 (d) SCIENCE ASSETS ACQUISITION.—There are au-
10 thorized to be appropriated to the Secretary for the pur-
11 chase, construction, expansion, and acquisition of real
12 plant, property, and other physical assets for general
13 science and research activities, \$126,870,000 for fiscal
14 year 1998, of which—

15 (1) \$50,850,000 shall be for High Energy
16 Physics, including—

17 (A) \$30,950,000 for completion of Project
18 92–G–302, Fermilab Main Injector, Fermi Na-
19 tional Accelerator Laboratory, Illinois;

20 (B) \$9,400,000 for completion of Project
21 97–G–303, Stanford Linear Accelerator Lab-
22 oratory Master Station Upgrade, California;

23 (C) \$5,500,000 for architectural engineer-
24 ing and technical design work for Project 98–

1 G-304, Neutrinos at the Main Injector, Fermi
2 National Accelerator Laboratory, Illinois; and

3 (D) \$5,000,000 for completion of Project
4 98-G-305, Fermilab C-Zero Area Experimental
5 Hall, Fermi National Accelerator Laboratory,
6 Illinois; and

7 (2) \$76,020,000 shall be for Nuclear Physics,
8 for completion of Project 91-G-300, Relativistic
9 Heavy Ion Collider, Brookhaven National Labora-
10 tory, Upton, New York.

11 (e) FOSSIL ENERGY RESEARCH AND DEVELOP-
12 MENT.—There are authorized to be appropriated to the
13 Secretary for Fossil Energy Research and Development
14 operating expenses, capital equipment, and construction,
15 \$348,854,000 for fiscal year 1998 and \$348,185,000 for
16 fiscal year 1999, of which—

17 (1) \$105,831,000 for fiscal year 1998 and
18 \$104,206,000 for fiscal year 1999 shall be for Coal
19 operating expenses, including—

20 (A) \$5,064,000 for fiscal year 1998 and
21 \$5,064,000 for fiscal year 1999 for Coal Prepa-
22 ration;

23 (B) \$5,816,000 for fiscal year 1998 and
24 \$5,816,000 for fiscal year 1999 for Direct Liq-
25 uefaction;

1 (C) \$4,223,000 for fiscal year 1998 and
2 \$4,223,000 for fiscal year 1999 for Indirect
3 Liquefaction;

4 (D) \$741,000 for fiscal year 1998 and
5 \$741,000 for fiscal year 1999 for Advanced
6 Clean Fuels Research Advanced Research and
7 Environmental Technology;

8 (E) \$5,462,000 for fiscal year 1998 and
9 \$5,462,000 for fiscal year 1999 for Advanced
10 Pulverized Coal-Fired Powerplant;

11 (F) \$10,927,000 for fiscal year 1998 and
12 \$10,927,000 for fiscal year 1999 for Indirect
13 Fired Cycle;

14 (G) \$22,342,000 for fiscal year 1998 and
15 \$20,717,000 for fiscal year 1999 for High-Effi-
16 ciency-Integrated Gasification Combined Cycle;

17 (H) \$17,875,000 for fiscal year 1998 and
18 \$17,875,000 for fiscal year 1999 for High-Effi-
19 ciency Pressurized Fluidized Bed;

20 (I) \$9,734,000 for fiscal year 1998 and
21 \$9,734,000 for fiscal year 1999 for Advanced
22 Clean/Efficient Power Systems Advanced Re-
23 search and Environmental Technology; and

1 (J) \$23,647,000 for fiscal year 1998 and
2 \$23,647,000 for fiscal year 1999 for Advanced
3 Research and Technology Development;

4 (2) \$47,419,000 for fiscal year 1998 and
5 \$46,464,000 for fiscal year 1999 shall be for Oil
6 Technology operating expenses, including—

7 (A) \$31,157,000 for fiscal year 1998 and
8 \$31,157,000 for fiscal year 1999 for Explo-
9 ration and Production Supporting Research;

10 (B) \$3,931,000 for fiscal year 1998 and
11 \$3,931,000 for fiscal year 1999 for Recovery
12 Field Demonstrations;

13 (C) \$6,411,000 for fiscal year 1998 and
14 \$5,456,000 for fiscal year 1999 for Exploration
15 and Production Experimental Research; and

16 (D) \$5,920,000 for fiscal year 1998 and
17 \$5,920,000 for fiscal year 1999 for Processing
18 Research and Downstream Operations;

19 (3) \$85,877,000 for fiscal year 1998 and
20 \$85,877,000 for fiscal year 1999 shall be for Gas
21 operating expenses, including—

22 (A) \$14,123,000 for fiscal year 1998 and
23 \$14,123,000 for fiscal year 1999 for Natural
24 Gas Research Exploration and Production;

1 (B) \$993,000 for fiscal year 1998 and
2 \$993,000 for fiscal year 1999 for Natural Gas
3 Research Delivery and Storage;

4 (C) \$31,379,000 for fiscal year 1998 and
5 \$31,379,000 for fiscal year 1999 for Natural
6 Gas Research Advanced Turbine Systems;

7 (D) \$4,617,000 for fiscal year 1998 and
8 \$4,617,000 for fiscal year 1999 for Natural
9 Gas Research Environmental Research/Regu-
10 latory Analysis;

11 (E) \$1,210,000 for fiscal year 1998 and
12 \$1,210,000 for fiscal year 1999 for Fuel Cells
13 Advanced Research;

14 (F) \$16,335,000 for fiscal year 1998 and
15 \$16,335,000 for fiscal year 1999 for Fuel Cells
16 Molten Carbonate Systems to continue cost-
17 shared cost reduction and performance improve-
18 ment of one system; and

19 (G) \$12,412,000 for fiscal year 1998 and
20 \$12,412,000 for fiscal year 1999 for Fuel Cells
21 Advanced Concepts;

22 (4) \$61,783,000 for fiscal year 1998 and
23 \$58,694,000 for fiscal year 1999 shall be for Pro-
24 gram Direction and Management Support operating
25 expenses, including—

1 (A) \$13,676,000 for fiscal year 1998 and
2 \$12,992,000 for fiscal year 1999 for Head-
3 quarters Program Direction; and

4 (B) \$48,107,000 for fiscal year 1998 and
5 \$45,702,000 for fiscal year 1999 for Energy
6 Technology Center Program Direction;

7 (5) \$2,000,000 for fiscal year 1998 and
8 \$2,000,000 for fiscal year 1999 shall be for Plant
9 and Capital Equipment, for construction of General
10 Plant Projects at the Federal Energy Technology
11 Center sites and at the Bartlesville Project Office;

12 (6) \$12,935,000 for fiscal year 1998 and
13 \$12,935,000 for fiscal year 1999 shall be for Fossil
14 Energy Environmental Restoration operating ex-
15 penses;

16 (7) \$5,836,000 for fiscal year 1998 and
17 \$5,836,000 for fiscal year 1999 shall be for Cooper-
18 ative Research and Development operating expenses;

19 (8) \$2,173,000 for fiscal year 1998 and
20 \$2,173,000 for fiscal year 1999 shall be for Fuels
21 Conversion, Natural Gas, and Electricity operating
22 expenses; and

23 (9) \$25,000,000 for fiscal year 1998 and
24 \$30,000,000 for fiscal year 1999 shall be for a Fos-
25 sil Energy Science Initiative to be managed by the

1 Director of the Office of Energy Research, for
2 grants to be competitively awarded and subject to
3 peer review for research relating to fossil energy.

4 (f) ENERGY CONSERVATION RESEARCH AND DEVEL-
5 OPMENT.—There are authorized to be appropriated to the
6 Secretary for Energy Conservation Research and Develop-
7 ment operating expenses and capital equipment,
8 \$416,908,000 for fiscal year 1998 (reduced by
9 \$20,000,000 to reflect the use of prior year balances) and
10 \$439,403,000 for fiscal year 1999, of which—

11 (1) \$41,004,000 for fiscal year 1998 and
12 \$40,230,000 for fiscal year 1999 shall be for the
13 Building Technology, State and Community Sector
14 (Non-Grants), including—

15 (A) \$4,662,000 for fiscal year 1998 and
16 \$4,662,000 for fiscal year 1999 for Building
17 Systems Design for Building America Program;

18 (B) \$20,550,000 for fiscal year 1998 and
19 \$20,250,000 for fiscal year 1999 for Building
20 Equipment and Materials; and

21 (C) \$11,692,000 for fiscal year 1998 and
22 \$11,218,000 for fiscal year 1999 for Manage-
23 ment and Planning;

1 (2) \$125,380,000 for fiscal year 1998 and
2 \$125,048,000 for fiscal year 1999 shall be for the
3 Industry Sector, including—

4 (A) \$55,660,000 for fiscal year 1998 and
5 \$55,660,000 for fiscal year 1999 for Industries
6 of the Future (Specific);

7 (B) \$39,120,000 for fiscal year 1998 and
8 \$39,120,000 for fiscal year 1999 for Industries
9 of the Future (Crosscutting);

10 (C) \$23,950,000 for fiscal year 1998 and
11 \$23,950,000 for fiscal year 1999 for Tech-
12 nology Access; and

13 (D) \$6,650,000 for fiscal year 1998 and
14 \$6,318,000 for fiscal year 1999 for Manage-
15 ment and Planning;

16 (3) \$179,576,000 for fiscal year 1998 and
17 \$179,225,000 for fiscal year 1999 shall be for the
18 Transportation Sector, including—

19 (A) \$124,046,000 for fiscal year 1998 and
20 \$124,046,000 for fiscal year 1999 for Advanced
21 Automotive Technologies;

22 (B) \$18,000,000 for fiscal year 1998 and
23 \$18,000,000 for fiscal year 1999 for Advanced
24 Heavy Vehicle Technologies;

1 (C) \$30,500,000 for fiscal year 1998 and
 2 \$30,500,000 for fiscal year 1999 for Transpor-
 3 tation Materials Technologies; and

4 (D) \$7,030,000 for fiscal year 1998 and
 5 \$6,679,000 for fiscal year 1999 for Implemen-
 6 tation and Program;

7 (4) \$20,948,000 for fiscal year 1998 and
 8 \$19,900,000 for fiscal year 1999 shall be for Policy
 9 and Management; and

10 (5) \$50,000,000 for fiscal year 1998 and
 11 \$75,000,000 for fiscal year 1999 shall be for an En-
 12 ergy Efficiency Science Initiative to be managed by
 13 the Director of the Office of Energy Research, for
 14 grants to be competitively awarded and subject to
 15 peer review for research relating to energy efficiency.

16 **SEC. 4. FUNDING LIMITATIONS.**

17 (a) FISCAL YEARS 1998 AND 1999.—None of the
 18 funds authorized by this Act for fiscal year 1998 or fiscal
 19 year 1999 may be used for the following programs,
 20 projects, and activities:

21 (1) Solar Building Technology Research Space
 22 Conditioning and Water Heating Quality Assurance.

23 (2) Solar Building Technology Research Space
 24 Conditioning and Water Heating Technology De-
 25 ployment.

1 (3) Photovoltaic Energy Systems Collector Re-
2 search and Systems Development PV Building Op-
3 portunities.

4 (4) Photovoltaic Energy Systems Collector Re-
5 search and Systems Development Climate Change
6 Action Plan: Partnerships for Technology Introduc-
7 tion.

8 (5) Solar Thermal Electric Research and Devel-
9 opment Power Systems Research Power Systems
10 and Markets/Industrial Assistance.

11 (6) Biopower Energy Systems-Utilities
12 Thermochemical Conversion.

13 (7) Biopower Energy Systems-Utilities Systems
14 Development Climate Change Action Plan: Hawaii
15 Direct Gasifier Project.

16 (8) Biopower Energy Systems-Utilities Systems
17 Development Climate Change Action Plan: Biomass
18 Power for Rural Development Initiative.

19 (9) Biopower Energy Systems-Utilities Systems
20 Development Modular Systems Development.

21 (10) Biopower Energy Systems-Utilities Sys-
22 tems Regional Biomass Energy Program.

23 (11) Biofuels Energy Systems-Transportation
24 Ethanol Production Feasibility Studies.

1 (12) Biofuels Energy Systems-Transportation
2 Cellulose-to-Ethanol Production Facilities.

3 (13) Biofuels Energy Systems-Transportation
4 Switchgrass/Ethanol Facilities Location Studies.

5 (14) Biofuels Energy Systems-Transportation
6 Regional Biomass Energy Program.

7 (15) Wind Energy Systems Turbine Research
8 Near-Term Research and Testing.

9 (16) Wind Energy Systems Cooperative Re-
10 search and Testing Industry Support.

11 (17) International Solar Energy Program Com-
12 mittee on Renewable Energy Commerce and Trade.

13 (18) International Solar Energy Program
14 America's 21st Century.

15 (19) Solar Technology Transfer.

16 (20) Solar Energy Resource Assessment.

17 (21) Geothermal Electric Research and Devel-
18 opment and Deployment Hot Dry Rock Fenton Hill
19 Experimental Site.

20 (22) Geothermal Electric Research and Devel-
21 opment and Deployment Energy Conversion Tech-
22 nology.

23 (23) Geothermal Electric Research and Devel-
24 opment and Deployment Site Development Activi-
25 ties.

- 1 (24) Geothermal Heat Pump Deployment.
- 2 (25) Renewable Indian Energy Resources.
- 3 (26) Electric Energy Systems and Storage Cli-
- 4 mate Challenge.
- 5 (27) Nuclear Energy Advanced Light Water
- 6 Reactor.
- 7 (28) Nuclear Energy Commercial Reactor.
- 8 (29) Nuclear Energy Security.
- 9 (30) Nuclear Energy Termination Costs Gas
- 10 Turbine-Modular Helium Reactor.
- 11 (31) Nuclear Energy Termination Costs Ad-
- 12 vanced Light Water Reactor.
- 13 (32) Biological and Environmental Research
- 14 Environmental Processes Human Interactions.
- 15 (33) Fossil Energy Research and Development
- 16 Advanced Research and Technology Development
- 17 Coal Technology Export.
- 18 (34) Fossil Energy Research and Development
- 19 Mining.
- 20 (35) Clean Coal Technology Program.
- 21 (36) Building Systems Designs Residential
- 22 Buildings Climate Change Action Plan: Advanced
- 23 Housing Technology Program.

1 (37) Building Systems Designs Residential
2 Buildings Climate Change Action Plan: Industrial
3 Housing.

4 (38) Building Systems Designs Residential
5 Buildings Climate Change Action Plan: Residential
6 Energy Efficiency Program.

7 (39) Building Systems Designs Residential
8 Buildings Climate Change Action Plan: Home Rat-
9 ing Systems.

10 (40) Building Systems Designs Residential
11 Buildings Climate Change Action Plan: Affordable
12 Housing for Low-Income Housing.

13 (41) Building Systems Designs Commercial
14 Buildings.

15 (42) Building Systems Designs Best Practices
16 Climate Change Action Plan: Outreach.

17 (43) Building Equipment and Materials Space
18 Conditioning Research and Development Climate
19 Change Action Plan: Fuel Cell Building Micro-
20 generation.

21 (44) Building Equipment and Materials Space
22 Conditioning Research and Development Computer
23 Design.

1 (45) Building Equipment and Materials Light-
2 ing and Appliances Research and Development Elec-
3 tronics.

4 (46) Building Equipment and Materials Light-
5 ing and Appliances Research and Development Fix-
6 tures/Distribution Systems.

7 (47) Building Equipment and Materials Light-
8 ing and Appliances Research and Development New
9 Concepts in Lighting.

10 (48) Building Equipment and Materials Light-
11 ing and Appliances Research and Development New
12 Lighting Impacts.

13 (49) Building Equipment and Materials Light-
14 ing and Appliances Research and Development Cli-
15 mate Change Action Plan: Lighting Collaborative.

16 (50) Building Equipment and Materials Light-
17 ing and Appliances Research and Development Cli-
18 mate Change Action Plan: ENERGY STAR Part-
19 nerships.

20 (51) Building Equipment and Materials Light-
21 ing and Appliances Research and Development Cli-
22 mate Change Action Plan: Volume Purchases.

23 (52) Building Equipment and Materials Light-
24 ing and Appliances Research and Development Cli-

1 mate Change Action Plan: Emerging Technology In-
2 troduction.

3 (53) Building Equipment and Materials Mate-
4 rials and Structures Research and Development
5 Urban Heat Island.

6 (54) Building Equipment and Materials Mate-
7 rials and Structures Research and Development
8 Highly Reflective Surface Demonstrations and Mar-
9 ket Development.

10 (55) Building Equipment and Materials Win-
11 dows and Glazing Research and Development Cli-
12 mate Change Action Plan: Superwindow Collabo-
13 rative.

14 (56) Municipal Energy Management.

15 (57) Management and Planning Energy Infor-
16 mation Administration Funding.

17 (58) Transportation Sector Technology Deploy-
18 ment.

19 (b) FISCAL YEAR 1999 ONLY.—None of the funds
20 authorized by this Act for fiscal year 1999 may be used
21 for the following programs, projects, and activities:

22 (1) Solar Thermal Electric Research and Devel-
23 opment Power Systems Research Power Tower De-
24 velopment.

- 1 (2) Wind Energy Systems Applied Research
2 Wind Hybrid Systems.
- 3 (3) Wind Energy Systems Applied Research
4 Avian Research.
- 5 (4) Wind Energy Systems Turbine Research
6 Next Generation Turbine Project.
- 7 (5) Wind Energy Systems Turbine Research
8 Small Wind Turbine Project.
- 9 (6) Wind Energy Systems Cooperative Research
10 and Testing Certification and Standards.
- 11 (7) Wind Energy Systems Cooperative Research
12 and Testing Utility Analysis.
- 13 (8) Electric Energy Systems and Storage Elec-
14 tric and Magnetic Fields Research and Development.
- 15 (9) Hydropower.
- 16 (10) Biopower Energy Systems-Utilities Sys-
17 tems Development Climate Change Action Plan:
18 Vermont Indirect Gasifier Project.
- 19 (11) Nuclear Energy Advanced Radioisotope
20 Power Systems Cassini Radioisotope Thermoelectric
21 Generators and Launch Support.
- 22 (12) Nuclear Energy Advanced Test Reactor
23 Fusion Irradiations.

1 (13) Office of Environment, Safety and Health
2 (Non-Defense) Health Studies State Health Agree-
3 ments.

4 (14) Building Equipment and Materials Large
5 Commercial Chillers.

6 **SEC. 5. NATIONAL ACADEMY OF SCIENCES REPORTS.**

7 (a) HIGH ENERGY AND NUCLEAR PHYSICS.—The
8 Secretary shall enter into appropriate arrangements with
9 National Academy of Sciences for the Academy to prepare
10 a report on the high energy and nuclear physics activities
11 of the Department, assuming a combined budget of
12 \$977,080,000 for all activities authorized under section 3
13 (c) and (d) for fiscal year 1998, and \$941,000,000 for
14 each of the fiscal years 1999, 2000, 2001, and 2002. The
15 report shall include—

16 (1) a priority list of research opportunities, in-
17 cluding both ongoing and proposed activities;

18 (2) an analysis of the relevance of each research
19 facility to the research opportunities listed under
20 paragraph (1);

21 (3) recommendations for the optimal balance
22 among facility operations, construction, and research
23 support and the optimal balance between university
24 and laboratory research programs; and

1 (4) recommended schedules for the continu-
2 ation, consolidation, or termination of each research
3 program, and continuation, upgrade, transfer, or clo-
4 sure of each research facility.

5 Not later than December 31, 1997, the Secretary shall
6 transmit to the Committee on Science of the House of
7 Representatives and the Committee on Energy and Natu-
8 ral Resources of the Senate the report prepared under this
9 subsection.

10 (b) NATIONAL SYNCHROTRON SPALLATION
11 SOURCE.—The Secretary shall enter into appropriate ar-
12 rangements with National Academy of Sciences for the
13 Academy to prepare a report containing a detailed evalua-
14 tion of the costs of construction and operation of the Na-
15 tional Synchrotron Spallation Source at alternative appro-
16 priate sites, including at least the Argonne National Lab-
17 oratory, the Brookhaven National Laboratory, the Los Al-
18 amos National Laboratory, and the Oak Ridge National
19 Laboratory. Such report shall also include an identifica-
20 tion of other advantages and disadvantages of each site
21 evaluated. Not later than December 31, 1997, the Sec-
22 retary shall transmit to the Committee on Science of the
23 House of Representatives and the Committee on Energy
24 and Natural Resources of the Senate the report prepared
25 under this subsection.

1 **SEC. 6. PROHIBITION ON USE OF CLEAN COAL TECH-**
2 **NOLOGY RESERVE FUNDS.**

3 No funds in the Clean Coal Technology Reserve may
4 be used to initiate or carry out a clean coal technology
5 program based outside the United States.

6 **SEC. 7. NEXT GENERATION INTERNET.**

7 None of the funds authorized by this Act, or any
8 other Act enacted before the date of the enactment of this
9 Act, may be used for the Next Generation Internet.

10 **SEC. 8. LIMITATIONS.**

11 (a) PROHIBITION OF LOBBYING ACTIVITIES.—None
12 of the funds authorized by this Act shall be available for
13 any activity whose purpose is to influence legislation pend-
14 ing before the Congress, except that this subsection shall
15 not prevent officers or employees of the United States or
16 of its departments or agencies from communicating to
17 Members of Congress on the request of any Member or
18 to Congress, through the proper channels, requests for leg-
19 islation or appropriations which they deem necessary for
20 the efficient conduct of the public business.

21 (b) LIMITATION ON APPROPRIATIONS.—Notwith-
22 standing any other provision of law, no sums are author-
23 ized to be appropriated for fiscal years 1998 and 1999
24 for the activities for which sums are authorized by this
25 Act, unless such sums are specifically authorized to be ap-
26 propriated by this Act.

1 (c) ELIGIBILITY FOR AWARDS.—

2 (1) IN GENERAL.—The Secretary shall exclude
3 from consideration for grant agreements made by
4 the Department after fiscal year 1997 any person
5 who received funds, other than those described in
6 paragraph (2), appropriated for a fiscal year after
7 fiscal year 1997, under a grant agreement from any
8 Federal funding source for a project that was not
9 subjected to a competitive, merit-based award proc-
10 ess. Any exclusion from consideration pursuant to
11 this subsection shall be effective for a period of 5
12 years after the person receives such Federal funds.

13 (2) EXCEPTION.—Paragraph (1) shall not
14 apply to the receipt of Federal funds by a person
15 due to the membership of that person in a class
16 specified by law for which assistance is awarded to
17 members of the class according to a formula pro-
18 vided by law.

19 (3) DEFINITION.—For purposes of this sub-
20 section, the term “grant agreement” means a legal
21 instrument whose principal purpose is to transfer a
22 thing of value to the recipient to carry out a public
23 purpose of support or stimulation authorized by a
24 law of the United States, and does not include the
25 acquisition (by purchase, lease, or barter) of prop-

erty or services for the direct benefit or use of the
United States Government.

SEC. 9. NOTICE.

(a) NOTICE OF REPROGRAMMING.—If any funds authorized by this Act are subject to a reprogramming action that requires notice to be provided to the Appropriations Committees of the House of Representatives and the Senate, notice of such action shall concurrently be provided to the Committees on Science and Commerce of the House of Representatives and the Committee on Energy and Natural Resources of the Senate.

(b) NOTICE OF REORGANIZATION.—The Secretary shall provide notice to the Committees on Science, Commerce, and Appropriations of the House of Representatives, and the Committees on Energy and Natural Resources and Appropriations of the Senate, not later than 15 days before any major reorganization of any program, project, or activity of the Department.

SEC. 10. SENSE OF CONGRESS ON THE YEAR 2000 PROBLEM.

With the year 2000 fast approaching, it is the sense of Congress that the Department should—

(1) give high priority to correcting all 2-digit date-related problems in its computer systems to ensure that those systems continue to operate effectively in the year 2000 and beyond;

1 (2) assess immediately the extent of the risk to
2 the operations of the Department posed by the prob-
3 lems referred to in paragraph (1), and plan and
4 budget for achieving Year 2000 compliance for all of
5 its mission-critical systems; and

6 (3) develop contingency plans for those systems
7 that the Department is unable to correct in time.

○